



Elser's Challenge 2

by Arya Akhavan (July 2013)

Angles for R.I. = 1.620

73 + 14 girdles = 87 facets

2-fold, mirror-image symmetry

96 index

L/W = 1.968 T/W = 0.509 U/W = 0.207

P/W = 0.450 C/W = 0.198

Vol./W³ = 0.492

PAVILION

P1	42.82°	02-46-50-94	Cut to centerpoint.
G1	90.00°	02-46-50-94	Set stone width.
P2	42.05°	01-47-49-95	Meet P1, G1
P3	42.09°	03-45-51-93	Meet P1, P2
G2	90.00°	04-44-52-92	Meet P1, G1, P3
P4	42.88°	04-44-52-92	Meet P1, G1, P3, G2 (level girdle)
P5	41.00°	06-42-54-90	Meet P3, P4
G3	90.00°	15-33-63-81	Meet G2, P4, P5
P6	41.82°	15-33-63-81	Meet P4, P5, G2, G3 (level girdle)
P7	41.09°	24-72	Meet P5, P6
G4	90.00°	24-72	Level girdle.

CROWN

C1	33.87°	02-46-50-94	Set girdle width.
C2	33.87°	04-44-52-92	Level girdle.
C3	29.25°	15-33-63-81	Level girdle.
C4	24.97°	24-72	Level girdle.
C5	23.75°	12-36-60-84	Meet G2, G3, C2, C3
C6	23.75°	08-40-56-88	Meet G2, G3, C2, C3, C5
C7	32.10°	03-45-51-93	Meet G1, G2, C1, C2
C8	31.75°	01-47-49-95	Meet G1, C1
C9	17.28°	24-72	Meet C3, C4, C5
C10	12.41°	24-72	Meet C5, C6, C9
C11	22.41°	06-42-54-90	Meet C2, C6, C7
C12	23.72°	02-46-50-94	Meet C1, C7, C8
C13	8.97°	24-72	Meet C6, C10, C11
C14	19.46°	96-48	Meet C8, C12; C11, C12, C13
T	0.00°	Table	Meet C11, C12, C13, C14

Last year, I got a piece of pink tourmaline with a 2.0 L/W ratio, and was challenged by Lisa Elser to write a high-yield design for it. I decided that my old design was too time-consuming, so I wrote a new, equally time-consuming one. Works in materials from petalite to peridot (RI = 1.50 - 1.65) with no changes.

Suggested length = 10-20 mm

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